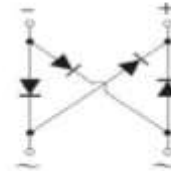


Features

- Ideal for automated placement
- Applicable for automotive insertion
- High surge current capability
- Solder Dip 260°C, 10 seconds



Mechanical Data

- Case: MSB
- Epoxy meets UL-94V-0 Flammability rating
- Terminals: Matte tin plated leads, solderable per J-STD-002B and JESD22-B102D
- Polarity: As marked on body

Typical Applications

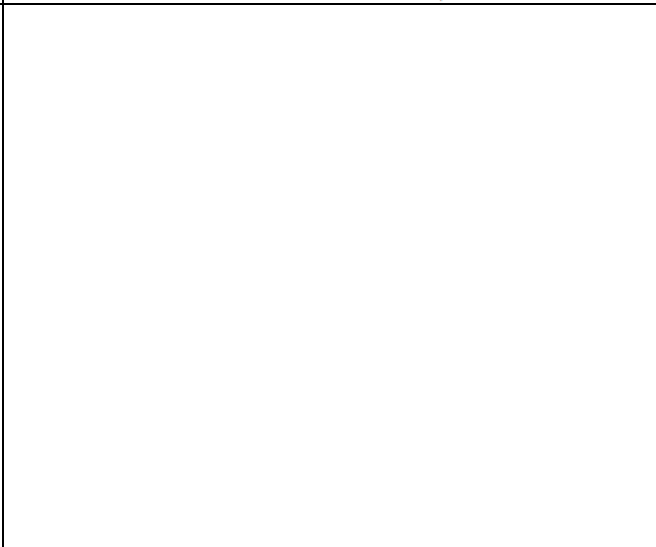
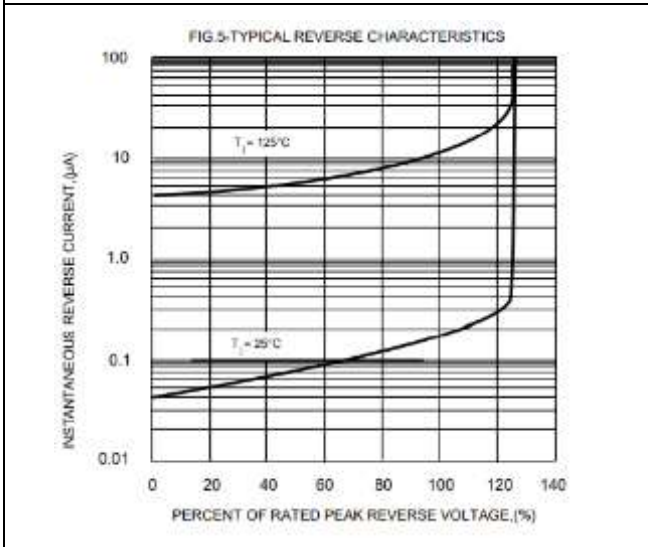
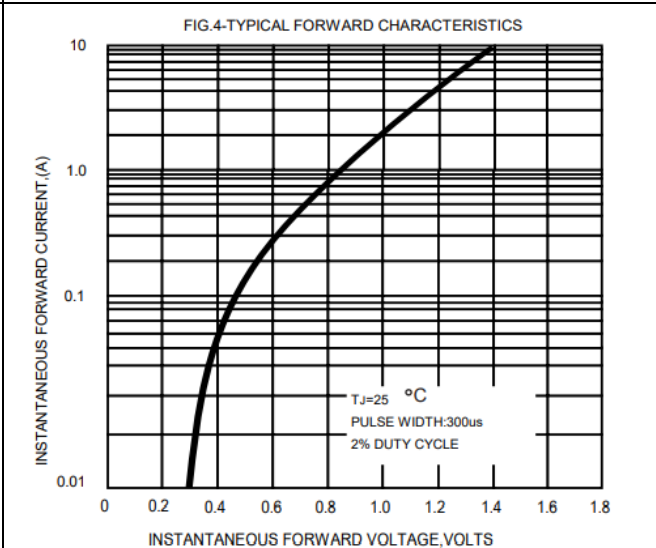
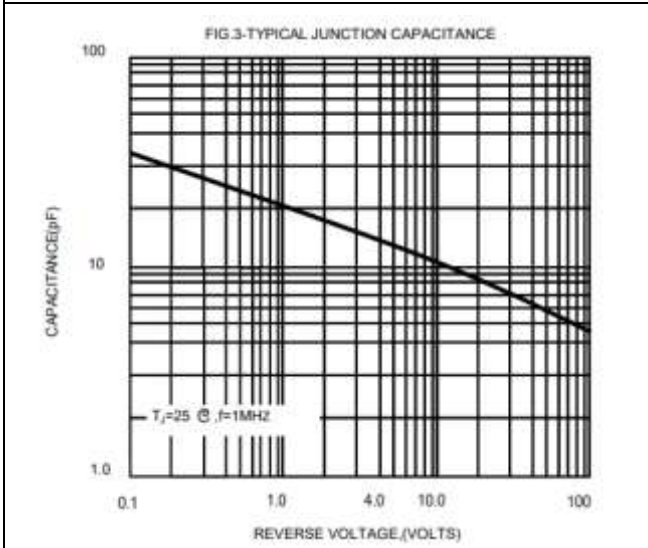
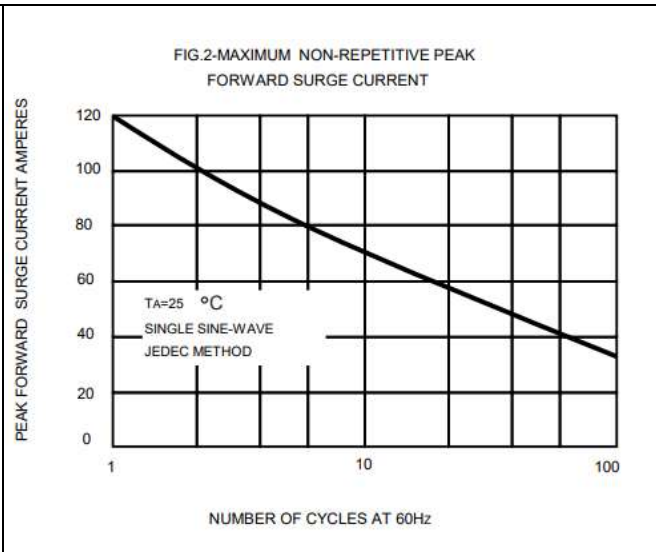
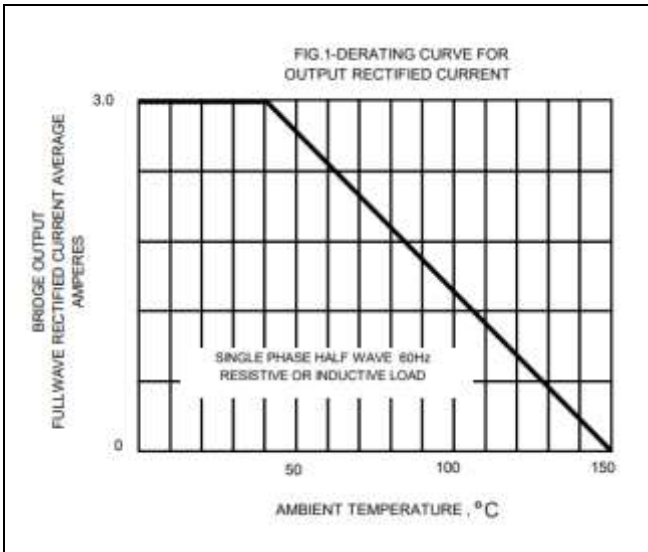
General purpose use in AC-to-DC bridge full wave rectifications for SMPS, Lighting Ballasters, Adapters, Battery Chargers, Home Appliances, Office Equipment and Telecommunication applications.

Maximum Ratings & Electrical Characteristics									
(T _A =25°C unless otherwise noted)									
Parameter	Symbol	MSB301	MSB302	MSB303	MSB304	MSB305	MSB306	MSB307	Unit
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Output Rectified Current at T _A =40°C	I _{F(AV)}	3.0							A
Peak Forward Surge Current Single Sine-Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	120							A
Rating for Fusig (t<8.3ms)	I ² t	59.76							A ² sec
Maximum Instantaneous Forward Voltage Drop per Leg at 1.5A	V _F	1.10							V
Maximum DC Reverse Current at T _A =25°C	I _R	5							μA
Rated DC Blocking Voltage per Leg T _A =125°C		500							
Typical Junction Capacitance per Element at 4.0V, 1MHz	C _J	33							pF
Typical Thermal Resistance per Leg (Note 1)	R _{θJA}	55							°C/W
Operating Junction Temperature Range	T _J	-55 to +150							°C
Storage Temperature Range	T _{STG}	-55 to +150							°C

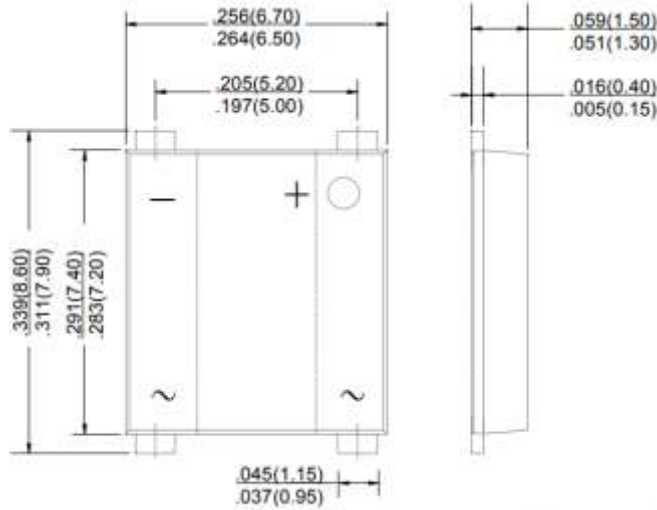
Notes: 1. Device mounted P.C.B with 0.5x0.5" (13mmx13mm) Copper Pads.

2. JEDEC registered values

Typical Characteristics ($T_{amb} = 25^{\circ}\text{C}$ unless otherwise specified)



Package Dimensions



Dimensions in inches and (millimeters)

Ordering information

Order code	Package	Packaging option	Base quantity	Packaging specification
MSB301 Thur MSB307	MSB	Tape/Reel	3000pcs	EIA STD RS-481